THE GEORGIA INSTITUTE OF TECHNOLOGY
BIOLOGY 2345 A-D Fall 2006
GENETICS LAB SYLLABUS

Labs: Cherry-Emerson (Biology) 206, Jan 8, 2007 – May 4, 2007. 1.0 Credits
Section A: M 12:05 - 2:55. Section B: M 3:05 – 5:55.
Section C: T 12:05 - 2:55
Instructor: Dr. Mirjana Brockett, School of Biology
Email: mirjana.brockett@biology.gatech.edu
Teaching assistants:
Nikhil Urs gtg556p@mail.gatech.edu (Sections A and B)
Jennifer Kovacs gtg647u@mail.gatech.edu (Section C)

Goal: To understand genetic analysis by conducting simulated experiments.

Attendance: Attendance is required for *all* labs. You must have written confirmation of a legitimate excuse, such as a severe illness, if you miss a lab. NO EXCEPTIONS! Your conduct in the course should conform to the Student Honor Code (http://www.honor.gatech.edu/). Students caught cheating on lab reports will be reported to the College for disciplinary action.

Assessments: Your grade in genetics lab will come from 10 graded reports (~70% of your grade) and two announced quizzes (~30% of your grade). The reports will consist of sections on the lab objectives, background, methods, data, and conclusions. Lab reports should typically be 1-2 pages in length with a three-page maximum. The two quizzes, given in the middle and at the end of the semester, will test your knowledge on the theory behind the labs. The most stringent scale used for your overall grade will be 90-100% an A, 80-89% a B, 70-79% a C, 60-69% a D, and 59% or less an F. This scale is subject to minor adjustment at my discretion. Questions concerning grades on particular reports must be handled through the regrade system.

All lab reports are to be handed in to your lab T.A. at the start of lab section the following week (for example, reports for week 2 are due by the beginning of week 3 lab). Late reports will lose 10% credit per day and must be submitted directly to an instructor or a biology office staff member. After the third day, late reports receive no credit. Additionally, it is suggested that you write your reports while conducting the lab, so that you can turn them in by the end of class.

Tentative Lab Schedule: This syllabus is subject to change!

Week	Lab Dates		Lab	Lab Subject	Points
	Mon (Sections A and B)	**Tue (SectionC)**			
1	8-Jan	9-Jan	-	No Lab	-
2	15-Jan	16-Jan	-	No Lab	-
3	22-Jan	23-Jan	1	Elementary Genetic Analysis	10
4	29-Jan	30-Jan	2	Advanced Genetic Analysis	10
5	5-Feb	6-Feb	3	Linkage and Mapping	10
6	12-Feb	13-Feb	4	Prokaryotic Genetics I	10
7	19-Feb	20-Feb	5	Gene Structure and Function	10
8	26-Feb	27-Feb		**Quiz 1**	**20**
9	5-March	6-March	6	Gene Structure and Function 2	10
10	12-March	13-March	7	Lac Operon	10
11	19-March	20-March	-	No Lab (spring break)	-
12	26-March	27-March	8	Restriction Analysis	10
13	2-April	3-April	9	DNA Sequencing	10
14	9-April	10-April	10	Genome Databases	10
15	16-April	17-April		**Quiz 2**	**20**
16	23-April	24-April		TBA	

Handouts will be posted on WebCT the week before each lab. Please print out the relevant handout each week and bring it to class.